

No.

9600233



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Svalof Weibull A B

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE VARIETY. (STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA, FIELD

'Highlight'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this thirty-first day of May, in the year of our Lord two thousand.

Attest:

*Aun Marie D.*

Commissioner  
Plant Variety Protection Office  
A. B. 1911

*Wm. H. Hildner*  
Secretary of Agriculture





U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE  
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER		3. VARIETY NAME	
Svalöf Weibull AB		SV E 11116		HIGHLIGHT	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		5. TELEPHONE (include area code)		<b>FOR OFFICIAL USE ONLY</b> PVPO NUMBER 9600233 DATE 5-27-96 FILING AND EXAMINATION FEE: \$2450.00 DATE 4-19-96 CERTIFICATION FEE: \$300 DATE May 30, 2000	
S-268 81 Svalöv, SWEDEN		705-324-3293			
7. GENUS AND SPECIES NAME		6. FAX (include area code)			
Pisum sativum		705-324-2550			
8. FAMILY NAME (Botanical)		9. CROP KIND NAME (Common name)			
Leguminosae		Field Pea			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) (Common name)		11. IF INCORPORATED, GIVE STATE OF INCORPORATION			
Limited Company		Sweden			
12. DATE OF INCORPORATION		13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS			
1992		Bonis & Company P.O. Box 217 Lindsay, Ontario, Canada K9V 5Z4		14. TELEPHONE (include area code)	
				705-324-0544	
				15. FAX (include area code)	
				705-324-2550	
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)					
<input checked="" type="checkbox"/> a. Exhibit A. Origin and Breeding History of the Variety <input checked="" type="checkbox"/> b. Exhibit B. Statement of Distinctness <input checked="" type="checkbox"/> c. Exhibit C. Objective Description of the Variety <input checked="" type="checkbox"/> d. Exhibit D. Additional Description of the Variety <input checked="" type="checkbox"/> e. Exhibit E. Statement of the Basis of the Applicant's Ownership <input checked="" type="checkbox"/> f. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository) <input checked="" type="checkbox"/> g. Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to PVPO)					
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act?)					
<input checked="" type="checkbox"/> YES (If "yes," answer items 18 and 19 below) <input type="checkbox"/> NO (If "no," go to item 20)					
18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?			19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?		
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			<input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?					
<input checked="" type="checkbox"/> YES (If "yes," give names of countries and dates) <input type="checkbox"/> NO					
CANADA May 1993					
21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF APPLICANT (Owner(s))			SIGNATURE OF APPLICANT (Owner(s))		
Howard K. Love					
NAME (Please print or type)			NAME (Please print or type)		
Howard K. Love					
CAPACITY OR TITLE		DATE		CAPACITY OR TITLE	
Canadian Research Director		Apr. 15/96			
				DATE	
				Apr. 15/96	



## INSTRUCTIONS

**GENERAL:** To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (*See Section 97.175 of the Regulations and Rules of Practice.*) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.

Plant Variety Protection Office  
Telephone: (301) 504-5518

### ITEM

- 16a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 16b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
- (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
- (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 16d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
17. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See P.L. 103-349 for additional information.*)
20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

**NOTES:** It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment is specified in Section 97.175 of the regulations. (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20260; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0681-0055), Washington, DC 20503.



Variety: Highlight (SV E 11116) Pea

**EXHIBIT A**

**Revised November 11, 1997**

**Origin and Breeding:**

The variety was developed at Svalöf Weibull AB, Sweden. This semi-leafless variety originates from a cross of Rigel x Timo. The original cross was done in 1981. The breeding method was a pedigree method and the variety originates from a single plant selection in F<sub>4</sub>. The breeder seed was bulked in the F<sub>9</sub> generation. Selection criteria were powdery mildew resistance, standability, early maturity, and seed yield.

**Statement of Uniformity and Stability:**

**Variants:**      None observed

**Offtypes:**      None observed

**Evidence of Uniformity and Stability:**

Highlight has been observed to be uniform and stable for at least five (5) generations.

**Svalof Weibull Seed Ltd.**

P.O. Box 217  
208 St. David St.  
Lindsay, Ontario  
CANADA K9V 5Z4

Tel: (705) 324-3293  
Fax: (705) 324-2550  
E-mail: hlove@swseed.ca  
www.swseed.ca



Variety: Highlight (SV E 11116) Pea

**EXHIBIT B**

**Revised November 5, 1997**

**Statement of Distinctness:**

Of varieties known to us, Highlight is most similar to the variety, "Canis". Highlight is distinct from Canis in that it has smaller seed size, resistance to powdery mildew, shorter plant height, and shorter stipules, as evidenced by the attached ANOVA tables.

Characteristic (see ANOVA tables)	Year	Reps	Highlight (SV E 11116)	Range	Canis	Range
Thousand Grain	1994	9	184.22	(120 - 230)	245.67	(212 - 296)
Weight (grams)	1996	5	203.24	(181 - 222)	271.08	(262 - 282)
Disease Resistance	Powdery Mildew (See attached data)					
Plant Height	1996	20	54.35	(35 - 77)	57.45	(34 - 82)
	1997	20	70.22	(54 - 78)	73.60	(61 - 86)
Stipule Length	1996	10	3.89	(3.4 - 4.2)	4.61	(3.9 - 5.5)
	1997	20	5.23	(4.3 - 6.6)	5.65	(4.4 - 6.4)

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**REACTION OF THE FIELD PEA ZONE 2 (LONG SEASON) CO-OPERATIVE  
TEST TO POWDERY MILDEW IN 1994 AND SUPPORTIVE DATA FROM  
1992 CO-OPERATIVE TEST**

<b>ENTRY</b>	<b>1994 MORDEN</b>	<b>1992 MEAN</b>
Express	8.0	7.7
Radley	8.0	8.3
Highlight	2.0	1.7
Grande	8.0	7.9
Canis	8.0	NT
C.V.	2.2	
LSD (.05%)	0.3	

Data from Morden in 1994, from Morden, Portage la Prairie, and Melfort in 1992.  
Disease ratings are based on a 1-9 scale: 1=no infection, 2=1%, 3=5%, 4=10%, 5=25%,  
6=50%, 7=75%, 8=90%, and 9=100% infection.  
NT = not tested.



AGROBASE  
PROC ACB  
11/14/97 1994 + 1996 U.S. PVP THOUSAND GRAIN WEIGHT ANOVA

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr< F
-----	-----	-----	-----	-----	-----
Total	27	46977.107			
ENTRY	1	28429.316	28429.316	27.63	0.0002
BLOC	13	5172.047	397.850	0.39	0.9506
Residual	13	13375.744	1028.903		
-----	-----	-----	-----	-----	-----

Grand mean = 222.879 R-squared = 0.7153 C.V. = 14.39%

LSD for ENTRY = 21.4704 S.E.D. = 12.1238

t (a=0.05, 13 df) = 1.7709 MSE = 1028.90341

#### ENTRY

##### Averages

Level --- Y --- Rank

2	254.74	1 CANIS
1	191.01	2 HIGHLIGHT

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AGROBASE                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/14/97                      1994 U.S. PVP THOUSAND GRAIN WEIGHT ANOVA

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr > F
-----	---	-----	-----	-----	-----
Total	17	30550.944			
ENTRY	1	16989.389	16989.389	35.75	0.0003
BLOC	8	9759.444	1219.931	2.57	0.1020
Residual	8	3802.111	475.264		
-----	---	-----	-----	-----	-----

Grand mean = 214.944                      R-squared = 0.8755                      C.V. = 10.14%

LSD for ENTRY = 19.1104                      S.E.D. = 10.2769

t (a=0.05, 8 df) = 1.8596                      MSE = 475.26389

#### ENTRY

##### Averages

Level --- Y --- Rank

2	245.67	1 CANIS
1	184.22	2 HIGHLIGHT

-----  
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AGROBASE  
PROC ACB  
11/14/97 1996 U.S. PVP THOUSAND GRAIN WEIGHT ANOVA

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr > F
Total	9	13253.464			
ENTRY	1	11505.664	11505.664	43.09	0.0028
BLOC	4	679.664	169.916	0.64	0.6640
Residual	4	1068.136	267.034		

Grand mean = 237.160 R-squared = 0.9194 C.V. = 6.89%

LSD for ENTRY = 22.0328 S.E.D. = 10.3351

t (a=0.05, 4 df) = 2.1319 MSE = 267.03400

#### ENTRY

Averages  
Level --- Y --- Rank

2	271.08	1 CANIS
1	203.24	2 HIGHLIGHT

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AGROBASE  
PROC ACB  
11/13/97 1996 U.S. PVP PLANT HEIGHT ANOVA

Dependent variable: VINE\_HGT

Source	df	SS	MS	F-value	Pr > F
Total	39	6643.600			
ENTRY	1	96.100	96.100	0.56	0.4598
Residual	38	6547.500	172.303		

Grand mean = 55.900 R-squared = 0.0145 C.V. = 23.48%

LSD for ENTRY = 6.9983 S.E.D. = 4.1509

t (a=0.05, 38 df) = 1.6860 MSE = 172.30263

#### ENTRY

##### Averages

Level --- Y --- Rank

2	57.45	1 CANIS
1	54.35	2 HIGHLIGHT

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AGROBASE                      A N A L Y S I S   O F   V A R I A N C E  
 PROC ACB  
 11/13/97                      1997 U.S. PVP PLANT HEIGHT ANOVA

Dependent variable: VINE\_HGT

Source	df	SS	MS	F-value	Pr > F
Total	39	1535.556			
ENTRY	1	114.921	114.921	2.92	0.0983
BLOC	9	278.756	30.973	0.79	0.6305
Residual	29	1141.879	39.375		

Grand mean = 71.910                      R-squared = 0.2564                      C.V. = 8.73%

LSD for ENTRY = 3.3716                      S.E.D. = 1.9843

t (a=0.05, 29 df) = 1.6991                      MSE = 39.37514

#### ENTRY

##### Averages

Level --- Y --- Rank

2	73.60	1 CANIS
1	70.22	2 HIGHLIGHT

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AGROBASE  
PROC ACB  
11/13/97 1996 + 1997 U.S. PVP PLANT HEIGHT ANOVA

Dependent variable: VINE\_HGT

Source	df	SS	MS	F-value	Pr > F
Total	79	13305.558			
ENTRY	1	210.601	210.601	1.13	0.2912
BLOC	9	252.018	28.002	0.15	0.9978
Residual	69	12842.939	186.130		

Grand mean = 63.905 R-squared = 0.0348 C.V. = 21.35%

LSD for ENTRY = 5.0862 S.E.D. = 3.0507

t (a=0.05, 69 df) = 1.6672 MSE = 186.12956

#### ENTRY

Averages  
Level --- Y --- Rank

2	65.53	1 CANIS
1	62.28	2 HIGHLIGHT

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AGROBASE  
PROC ACB  
11/13/97

A N A L Y S I S   O F   V A R I A N C E

1996 U.S. PVP STIPULE LENGTH ANOVA

Dependent variable: STIP\_LTH

Source	df	SS	MS	F-value	Pr > F
Total	19	6.270			
ENTRY	1	2.592	2.592	16.34	0.0029
BLOC	9	2.250	0.250	1.58	0.2544
Residual	9	1.428	0.159		

Grand mean = 4.250      R-squared = 0.7722      C.V. = 9.37%

LSD for ENTRY = 0.3265      S.E.D. = 0.1781

$t(a=0.05, 9 \text{ df}) = 1.8331$       MSE = 0.15867

#### ENTRY

##### Averages

Level --- Y --- Rank

2	4.61	1 CANIS
1	3.89	2 HIGHLIGHT

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AGROBASE  
PROC ACB  
11/13/97

ANALYSIS OF VARIANCE  
1997 U.S. PVP STIPULE LENGTH ANOVA

Dependent variable: STIP\_LTH

Source	df	SS	MS	F-value	Pr > F
Total	39	12.956			
ENTRY	1	1.764	1.764	7.41	0.0109
BLOC	9	4.291	0.477	2.00	0.0757
Residual	29	6.901	0.238		

Grand mean = 5.440      R-squared = 0.4674      C.V. = 8.97%

LSD for ENTRY = 0.2621      S.E.D. = 0.1543

t (a=0.05, 29 df) = 1.6991      MSE = 0.23797

#### ENTRY

##### Averages

Level --- Y --- Rank

2	5.65	1 CANIS
1	5.23	2 HIGHLIGHT

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AGROBASE  
PROC ACB  
11/13/97 1996 + 1997 U.S. PVP STIPULE LENGTH ANOVA

Dependent variable: STIP\_LTH

Source	df	SS	MS	F-value	Pr > F
Total	59	38.107			
ENTRY	1	4.056	4.056	6.64	0.0131
BLOC	9	4.104	0.456	0.75	0.6652
Residual	49	29.947	0.611		

Grand mean = 5.043 R-squared = 0.2141 C.V. = 15.50%

LSD for ENTRY = 0.3384 S.E.D. = 0.2019

t (a=0.05, 49 df) = 1.6765 MSE = 0.61117

#### ENTRY

##### Averages

Level --- Y --- Rank

2	5.30	1 CANIS
1	4.78	2 HIGHLIGHT

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## 8. PODS:

Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED  End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)  
 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman)  
 4 = OTHER (Specify) \_\_\_\_\_  
 Surface: 1 = SMOOTH 2 = ROUGH  Surface: 1 = SHINY 2 = DULL  
 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE  
 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) \_\_\_\_\_  
  CM. LENGTH   MM. WIDTH (Between sutures)   NO. SEEDS PER POD

## 9. SEEDS (95--100 Tenderometer):

Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify) \_\_\_\_\_  
 Seive: %         AVERAGE

## SEEDS (Dry, Mature):

Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED  
 Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED  Surface: 1 = SHINY 2 = DULL  
 Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED  
 Primary Color: 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN  
 5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED  
 Secondary Color: 10 = GRAY 11 = BLACK  
 Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK  Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE  
  GRAMS PER 100 SEEDS

## 10. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

FUSARIUM WILT  NEAR-WILT  DOWNY MILDEW  
 ASCOCHYTA BLIGHT  POWDERY MILDEW  BACTERIAL BLIGHT  
 MOSAIC  PEA ENATION MOSAIC  YELLOW BEAN MOSAIC  
 OTHER (Specify) \_\_\_\_\_

## 11. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

APHIDS  OTHER (Specify) \_\_\_\_\_

## 12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness		Fresh Seed Color	
Leaf Color		Mature Seed Color	
Pod Color		Seed Shape	
Pod Shape		Plant Habit	

COMMENTS:



HIGHLIGHT-1

# APPENDIX

## OBJECTIVE DESCRIPTION OF VARIETY

### PEA (*Pisum sativum*)

Variety Name or Temporary Designation: Highlight

#### LEAFLET CHARACTERISTICS:

☒ Leaflet Type: 1=Leafless 2=Semi 3=Normal

#### STIPULE CHARACTERISTICS:

☒ Color: 1=Light-Green 2=Medium-Green 3=Dark-Green 4=Blue-Green 5=Yellow-Green 6=Other \_\_\_\_\_

Please provide example varieties of similar specified color or check varieties and stipule color.

Variety Name	Stipule Color
CANIS	2

Variety Name	Stipule Color

Variety Name	Stipule Color

☒ Size: 1=Small 2=Medium 3=Large

Please provide example varieties of similar specified size or check varieties and stipule size.

Variety Name	Stipule Size
Canis	2

Variety Name	Stipule Size

Variety Name	Stipule Size

OTHER CHARACTERISTICS: Describe other characteristics that may aid in identification.

Highlight resistant to mildew in opposite to most other var.

HIGHLIGHT has smaller seed size than CANIS.

100 Seed weight HIGHLIGHT 21, CANIS 27.



## EXHIBIT D

**Final Denomination:** 'Highlight'  
**Application number:** 93-187  
**Application date:** 26-05-93  
**Applicant:** Svalöf Weibull AB, Svalöv, Sweden  
**Agent in Canada:** Bonis & Company, Lindsay, Ontario

**Variety used for comparison:**

'Highlight' was compared to 'Tara' and 'Radley' as they are the most similar varieties

**Description:** (see comparison table on page )

**Summary:**

*'Highlight' has vines of medium length, produces two flowers per node and is resistant to powdery mildew.*

'Highlight' is a field pea variety with a light green plant colour and no stem fasciation. It has a medium number of nodes (including the two scale nodes and the first flowering node) and a medium vine length which is slightly longer than 'Radley' and slightly shorter than 'Tara'. Leaflets are absent on 'Highlight' and 'Radley' but are present on 'Tara'. Leaf and stipule waxiness is present in 'Highlight'. It has normal developed stipules which are shorter and narrower than those of 'Radley'. The stipules of 'Highlight' have medium dense flecking whereas those of 'Radley' have sparse flecking. 'Highlight' flowers at the same time as 'Tara' and 'Radley' and produces two flowers per node, whereas 'Tara' and 'Radley' produce one to two. The cream coloured standards have bases which are arched for 'Highlight' and level for 'Tara' and 'Radley'. 'Highlight' has a light green pod of medium width which is slightly shorter than 'Radley'. Pod parchment is entirely present. It has a weak concave curvature with a blunt end whereas 'Radley' has a pointed end. The pod has fewer ovules than 'Tara' and 'Radley' and produces pale green immature seed. 'Highlight' matures at the same time as 'Radley' and earlier than 'Tara'. 'Highlight' produces midsize spherical seeds, which are slightly smaller than those of 'Tara' and 'Radley' with a simple shape to the starch grain and without a black colour of hilum. The cotyledons show no wrinkling and are yellow in colour whereas those of 'Radley' are green. 'Highlight' is susceptible to asochyta leaf and pod spot (*Asochyta pisi*) and resistant to powdery mildew (*Erysiphe polygoni*), whereas 'Tara' is resistant to powdery mildew. It has average cooking quality and a lower protein content than 'Radley'.

**Origin and Breeding:**

The variety was bred at Svalöf Weibull AB in Sweden. The original cross (Rigel x Timo) was done in 1981. The pedigree method was used to develop 'Highlight' and it originates from a single F4 plant selection.

**Tests and Trials:**

The test and trials results were taken from the Prairie Registration Recommendation Committee on Grain (PRRCG) and were conducted in accordance with PRRCG protocols over a three year period (1990 to 1992).



U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

**EXHIBIT E**  
**STATEMENT OF THE BASIS OF OWNERSHIP**

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)  Svalof Weibull AB	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME  HIGHLIGHT
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)  S-268 81 Svalov, SWEDEN	5. TELEPHONE (include area code)  705-324-3293	6. FAX (include area code)  705-324-2550
7. PVPO NUMBER  9600233		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

If no, give name of country SWEDEN

☐ YES ☒ NO

10. Is the applicant the original breeder? If no, please answer the following:

☒ YES ☐ NO

a. If original rights to variety were owned by individual(s):

Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country \_\_\_\_\_

b. If original rights to variety were owned by a company:

Is the original breeder(s) U.S. based company? If no, give name of country SWEDEN

☐ YES ☒ NO

11. Additional explanation on ownership (If needed, use reverse for extra space):

Svalof Weibull AB is the breeder and owner to the Pisum sativum Field Pea variety HIGHLIGHT tested as experimental designation SV E 11116.

**PLEASE NOTE:**

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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